```
Db    781 AGGACACGGTGACCGAGATAACGTCCTCCTCTCCCAGCCACCCGGCCAACTCCTTCTACT 840

Qy    978 ACCCGCGGCTGAAGGCCCTGCCTCCCATCGCCAGGGTGACACTGGTGCGGCTGCGACAGA 1037
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    841 ACCCGCGGCTGAAGGCCCTGCCTCCCATCGCCAGGGTGACACTGGTGCGGCTGCGACAGA 900

Qy   1038 GCCCCAGGGCCTTCATCCCTCCCGCCCCAGTCCTGCCCAGCAGGGACAATGAGATTGTAG 1097
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    901 GCCCCAGGGCCTTCATCCCTCCCGCCCCAGTCCTGCCCAGCAGGGACAATGAGATTGTAG 960

Qy   1098 ACAGCGCCTCAGTTCCAGAAACGCCGCTGGACTGCGAGGTCTCCCTGTGGTCGTCCTGGG 1157
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    961 ACAGCGCCTCAGTTCCAGAAACGCCGCTGGACTGCGAGGTCTCCCTGTGGTCGTCCTGGG 1020

Qy   1158 GACTGTGCGGAGGCCACTGTGGGAGGCTCGGGACCAAGAGCAGGACTCGCTACGTCCGGG 1217
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1021 GACTGTGCGGAGGCCACTGTGGGAGGCTCGGGACCAAGAGCAGGACTCGCTACGTCCGGG 1080

Qy   1218 TCCAGCCCGCCAACAACGGGAGCCCCTGCCCCGAGCTCGAAGAAGAGGCTGAGTGCGTCC 1277
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1081 TCCAGCCCGCCAACAACGGGAGCCCCTGCCCCGAGCTCGAAGAAGAGGCTGAGTGCGTCC 1140

Qy   1278 CTGATAACTGCGTCTAAGACCAGAGCCCCGCAGCCCCTGGGGCCCCCCGGAGCCATGGGG 1337
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1141 CTGATAACTGCGTCTAAGACCAGAGCCCCGCAGCCCCTGGGGCCCCCCGGAGCCATGGGG 1200

Qy   1338 TGTCGGGGGCTCCTGTGCAGGCTCATGCTGCAGGCGGCCGAGGGCACAGGGGGTTTCGCG 1397
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1201 TGTCGGGGGCTCCTGTGCAGGCTCATGCTGCAGGCGGCCGAGGGCACAGGGGGTTTCGCG 1260

Qy   1398 CTGCTCCTGACCGCGGTGAGGCCGCGCCGACCATCTCTGCACTGAAGGGCCCTCTGGTGG 1457
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1261 CTGCTCCTGACCGCGGTGAGGCCGCGCCGACCATCTCTGCACTGAAGGGCCCTCTGGTGG 1320

Qy   1458 CCGGCACGGGCATTGGGAAACAGCCTCCTCCTTTCCCAACCTTGCTTCTTAGGGGCCCCC 1517
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1321 CCGGCACGGGCATTGGGAAACAGCCTCCTCCTTTCCCAACCTTGCTTCTTAGGGGCCCCC 1380

Qy   1518 GTGTCCCGTCTGCTCTCAGCCTCCTCCTCCTGCAGGATAAAGTCATCCCCAAGGCTCCAG 1577
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1381 GTGTCCCGTCTGCTCTCAGCCTCCTCCTCCTGCAGGATAAAGTCATCCCCAAGGCTCCAG 1440

Qy   1578 CTACTCTAAATTATGTCTCCTTATAAGTTATTGCTGCTCCAGGAGATTGTCCTTCATCGT 1637
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1441 CTACTCTAAATTATGTCTCCTTATAAGTTATTGCTGCTCCAGGAGATTGTCCTTCATCGT 1500

Qy   1638 CCAGGGGCCTGGCTCCCACGTGGTTGCAGATACCTCAGACCTGGTGCTCTAGGCTGTGCT 1697
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1501 CCAGGGGCCTGGCTCCCACGTGGTTGCAGATACCTCAGACCTGGTGCTCTAGGCTGTGCT 1560

Qy   1698 GAGCCCACTCTCCCGAGGGCGCATCCAAGCGGGGGCCACTTGAGAAGTGAATAAATGGGG 1757
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1561 GAGCCCACTCTCCCGAGGGCGCATCCAAGCGGGGGCCACTTGAGAAGTGAATAAATGGGG 1620

Qy   1758 CGGTTTCGGAAGCGTCAGTGTTTCCATGTTATGGATCTCTCTGCGTTTGAATAAAGACTA 1817
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1621 CGGTTTCGGAAGCGTCAGTGTTTCCATGTTATGGATCTCTCTGCGTTTGAATAAAGACTA 1680

Qy   1818 TCTCTGTTGCTCAAAAAAAAAAA 1840
          ||||||||||||| |||||||||
Db   1681 TCTCTGTTGCTCACAAAAAAAAA 1703


RESULT 13
AAH34981
ID   AAH34981 standard; cDNA; 1848 BP.
XX
AC   AAH34981;
XX
DT   03-SEP-2001  (first entry)
XX
DE   Human colon cancer antigen encoding cDNA SEQ ID NO:2063.
XX
KW   Human; colon cancer; colon cancer antigen; diagnosis; detection;
KW   colorectal carcinoma; ss.
XX
OS   Homo sapiens.
XX
PN   WO200122920-A2.
XX
PD   05-APR-2001.
XX
PF   28-SEP-2000; 2000WO-US26524.
XX
PR   29-SEP-1999;   99US-0157137.
PR   03-NOV-1999;   99US-0163280.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Ruben SM,  Barash SC,  Birse CE,  Rosen CA;
XX
DR   WPI; 2001-235357/24.
DR   P-PSDB; AAG75576.
XX
PT   Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
PT   useful for preventing, diagnosing and/or treating colorectal cancers
XX
PS   Claim 1; Page 3549; 9803pp; English.
XX
CC   AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
CC   cancer-associated nucleic acid molecules (N) and proteins (P), where
CC   the proteins are collectively known as colon cancer antigens. The colon
CC   cancer antigens have cytostatic activity and can be used in gene
CC   therapy and vaccine production. N and P may be used in the prevention,
CC   diagnosis and treatment of diseases associated with inappropriate P
CC   expression. For example, N and P may be used to treat disorders
CC   associated with decreased expression by rectifying mutations or deletions
CC   in a patient's genome that affect the activity of P by expressing
CC   inactive proteins or to supplement the patients own production of P.
CC   Additionally, N may be used to produce the colon cancer-associated Ps,
CC   by inserting the nucleic acids into a host cell and culturing the cell
CC   to express the proteins. N and P can be used in the prevention, diagnosis
CC   and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
CC   and AAB77789 represent sequences used in the exemplification of the
CC   present invention.
CC   N.B. Pages 666 to 682 and page 7053 of the sequence listing were
CC   missing at time of publication, meaning no sequences are present for
CC   SEQ ID NO:1027 to 1052, 7921 and 7922.
XX
SQ   Sequence 1848 BP; 324 A; 601 C; 578 G; 340 T; 5 other;

  Query Match             91.3%;  Score 1680.8;  DB 22;  Length 1848;
  Best Local Similarity   99.8%;  Pred. No. 0;
  Matches 1679;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    158 AGGCCGTGCAGCATCGAAGACAGGAGGAACTGGAGCCTCATTGGCCGGCCCGGGGCGCCG 217
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    133 AGGCCGTGCAGCATCGAAGACAGGAGGAACTGGAGCCTCATTGGCCGGCCCGGGGCGCCG 192

Qy    218 GCCTCGGGCTTAAATAGGAGCTCCGGGCTCTGGCTGGGACCCGACCGCTGCCGGCCGCGC 277
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    193 GCCTCGGGCTTAAATAGGAGCTCCGGGCTCTGGCTGGGACCCGACCGCTGCCGGCCGCGC 252

Qy    278 TCCCGCTGCTCCTGCCGGGTGATGGAAAACCCCAGCCCGGCCGCCGCCCTGGGCAAGGCC 337
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    253 TCCCGCTGCTCCTGCCGGGTGATGGAAAACCCCAGCCCGGCCGCCGCCCTGGGCAAGGCC 312

Qy    338 CTCTGCGCTCTCCTCCTGGCCACTCTCGGCGCCGCCGGCCAGCCTCTTGGGGGAGAGTCC 397
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    313 CTCTGCGCTCTCCTCCTGGCCACTCTCGGCGCCGCCGGCCAGCCTCTTGGGGGAGAGTCC 372

Qy    398 ATCTGTTCCGCCAGAGCCCCGGCCAAATACAGCATCACCTTCACGGGCAAGTGGAGCCAG 457
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    373 ATCTGTTCCGCCAGAGCCCCGGCCAAATACAGCATCACCTTCACGGGCAAGTGGAGCCAG 432
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Qy    458 ACGGCCTTCCCCAAGCAGTACCCCCTGTTCCGCCCCCCTGCGCAGTGGTCTTCGCTGCTG 517
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    433 ACGGCCTTCCCCAAGCAGTACCCCCTGTTCCGCCCCCCTGCGCAGTGGTCTTCGCTGCTG 492

Qy    518 GGGGCCGCGCATAGCTCCGACTACAGCATGTGGAGGAAGAACCAGTACGTCAGTAACGGG 577
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    493 GGGGCCGCGCATAGCTCCGACTACAGCATGTGGAGGAAGAACCAGTACGTCAGTAACGGG 552

Qy    578 CTGCGCGACTTTGCGGAGCGCGGCGAGGCCTGGGCGCTGATGAAGGAGATCGAGGCGGCG 637
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    553 CTGCGCGACTTTGCGGAGCGCGGCGAGGCCTGGGCGCTGATGAAGGAGATCGAGGCGGCG 612

Qy    638 GGGGAGGCGCTGCAGAGCGTGCACGAGGTGTTTTCGGCGCCCGCCGTCCCCAGCGGCACC 697
          ||||||||||||||||||||||||:|||||||||||||||||||||||||||||||||||||
Db    613 GGGGAGGCGCTGCAGAGCGTGCACGMGGTGTTTTCGGCGCCCGCCGTCCCCAGCGGCACC 672

Qy    698 GGGCAGACGTCGGCGGAGCTGGAGGTGCAGCGCAGGCACTCGCTGGTCTCGTTTGTGGTG 757
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    673 GGGCAGACGTCGGCGGAGCTGGAGGTGCAGCGCAGGCACTCGCTGGTCTCGTTTGTGGTG 732

      758 CGCATCGTGCCCAGCCCCGACTGGTTCGTGGGCGTGGACAGCCTGGACCTGTGCGACGGG 817
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    733 CGCATCGTGCCCAGCCCCGACTGGTTCGTGGGCGTGGACAGCCTGGACCTGTGCGACGGG 792

Qy    818 GACCGTTGGCGGGAACAGGCGGCGCTGGACCTGTACCCCTACGACGCCGGGACGGACAGC 877
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    793 GACCGTTGGCGGGAACAGGCGGCGCTGGACCTGTACCCCTACGACGCCGGGACGGACAGC 852

Qy    878 GGCTTCACCTTCTCCTCCCCCAACTTCGCCACCATCCCGCAGGACACGGTGACCGAGATA 937
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    853 GGCTTCACCTTCTCCTCCCCCAACTTCGCCACCATCCCGCAGGACACGGTGACCGAGATA 912

Qy    938 ACGTCCTCCTCTCCCAGCCACCCGGCCAACTCCTTCTACTACCCGCGGCTGAAGGCCCTG 997
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||
Db    913 ACGTCCTCCTCTCCCAGCCACCCGGCCAACTCCTTCTACTACCCGCGGCTGAAGGCNCTG 972

Qy    998 CCTCCCATCGCCAGGGTGACACTGGTGCGGCTGCGACAGAGCCCCAGGGCCTTCATCCCT 1057
          ||||||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||
Db    973 CCTCCCATCGCCAGGGTGACACTGSTGCGGCTGCGACAGAGCCCCAGGGCCTTCATCCCT 1032

Qy   1058 CCCGCCCCAGTCCTGCCCAGCAGGGACAATGAGATTGTAGACAGCGCCTCAGTTCCAGAA 1117
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1033 CCCGCCCCAGTCCTGCCCAGCAGGGACAATGAGATTGTAGACAGCGCCTCAGTTCCAGAA 1092

Qy   1118 ACGCCGCTGGACTGCGAGGTCTCCCTGTGGTCGTCCTGGGGACTGTGCGGAGGCCACTGT 1177
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1093 ACGCCGCTGGACTGCGAGGTCTCCCTGTGGTCGTCCTGGGGACTGTGCGGAGGCCACTGT 1152

     1178 GGGAGGCTCGGGACCAAGAGCAGGACTCGCTACGTCCGGGTCCAGCCCGCCAACAACGGG 1237
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1153 GGGAGGCTCGGGACCAAGAGCAGGACTCGCTACGTCCGGGTCCAGCCCGCCAACAACGGG 1212

Qy   1238 AGCCCCTGCCCCGAGCTCGAAGAAGAGGCTGAGTGCGTCCCTGATAACTGCGTCTAAGAC 1297
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1213 AGCCCCTGCCCCGAGCTCGAAGAAGAGGCTGAGTGCGTCCCTGATAACTGCGTCTAAGAC 1272

Qy   1298 CAGAGCCCCGCAGCCCCTGGGGCCCCCCGGAGCCATGGGGTGTCGGGGGCTCCTGTGCAG 1357
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1273 CAGAGCCCCGCAGCCCCTGGGGCCCCCCGGAGCCATGGGGTGTCGGGGGCTCCTGTGCAG 1332

Qy   1358 GCTCATGCTGCAGGCGGCCGAGGGCACAGGGGGTTTCGCGCTGCTCCTGACCGCGGTGAG 1417
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1333 GCTCATGCTGCAGGCGGCCGAGGGCACAGGGGGTTTCGCGCTGCTCCTGACCGCGGTGAG 1392

Qy   1418 GCCGCGCCGACCATCTCTGCACTGAAGGGCCCTCTGGTGGCCGGCACGGGCATTGGGAAA 1477
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1393 GCCGCGCCGACCATCTCTGCACTGAAGGGCCCTCTGGTGGCCGGCACGGGCATTGGGAAA 1452

Qy   1478 CAGCCTCCTCCTTTCCCAACCTTGCTTCTTAGGGGCCCCCGTGTCCCGTCTGCTCTCAGC 1537
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1453 CAGCCTCCTCCTTTCCCAACCTTGCTTCTTAGGGGCCCCCGTGTCCCGTCTGCTCTCAGC 1512

Qy   1538 CTCCTCCTCCTGCAGGATAAAGTCATCCCCAAGGCTCCAGCTACTCTAAATTATGTCTCC 1597
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1513 CTCCTCCTCCTGCAGGATAAAGTCATCCCCAAGGCTCCAGCTACTCTAAATTATGTCTCC 1572

Qy   1598 TTATAAGTTATTGCTGCTCCAGGAGATTGTCCTTCATCGTCCAGGGGCCTGGCTCCCACG 1657
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1573 TTATAAGTTATTGCTGCTCCAGGAGATTGTCCTTCATCGTCCAGGGGCCTGGCTCCCACG 1632

Qy   1658 TGGTTGCAGATACCTCAGACCTGGTGCTCTAGGCTGTGCTGAGCCCACTCTCCCGAGGGC 1717
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1633 TGGTTGCAGATACCTCAGACCTGGTGCTCTAGGCTGTGCTGAGCCCACTCTCCCGAGGGC 1692

Qy   1718 GCATCCAAGCGGGGGCCACTTGAGAAGTGAATAAATGGGGCGGTTTCGGAAGCGTCAGTG 1777
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||:||||||
Db   1693 GCATCCAAGCGGGGGCCACTTGAGAAGTGAATAAATGGGGCGGTTTCGGAAGCGTCAGTG 1752

Qy   1778 TTTCCATGTTATGGATCTCTCTGCGTTTGAATAAAGACTATCTCTGTTGCTCAAAAAAAA 1837
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||:||||||
Db   1753 TTTCCATGTTATGGATCTCTCTGCGTTTGAATAAAGACTATCTCTGTTGCTCAMAAAAAA 1812

Qy   1838 AAA 1840
          |||
Db   1813 AAA 1815
```

RESULT 14
AAK94182

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ID   AAK94182 standard; cDNA; 1669 BP.
XX
AC   AAK94182;
XX
DT   06-NOV-2001  (first entry)
XX
DE   Human full-length cDNA, SEQ ID NO: 2726.
XX
KW   Human; full length cDNA; cDNA synthesis; oligo-capping; ss.
XX
OS   Homo sapiens.
XX
PN   EP1130094-A2.
XX
PD   05-SEP-2001.
XX
PF   07-JUL-2000; 2000EP-0114089.
XX
PR   08-JUL-1999;   99JP-0194486.
PR   11-JAN-2000; 2000JP-0118774.
PR   02-MAY-2000; 2000JP-0183765.
XX
PA   (HELI-) HELIX RES INST.
XX
PI   Ota T,  Nishikawa T,  Isogai T,  Hayashi K,  Ishii S,  Kawai Y;
PI   Wakamatsu A,  Sugiyama T,  Nagai K,  Kojima S,  Otsuki T,  Koga H;
XX
DR   WPI; 2001-524255/58.
DR   P-PSDB; AAM93266.
XX
PT   830 Primers useful for synthesizing full length cDNA clones and their
PT   use in genetic manipulation -
XX
PS   Claim 8; SEQ ID NO 2726; 1380pp + sequence listing; English.
XX
CC   The invention relates to primers for synthesising full length cDNA
CC   clones. 830 cDNA molecules encoding a human protein have been
CC   isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA
CC   molecules have been determined. Primers for synthesising the full length
CC   cDNA are useful for clarifying the function of the protein encoded by
CC   the cDNA. The full length clones were obtained by construction of full
CC   length enriched cDNA libraries that were synthesised by the oligo-capping
CC   method. The primers enable the production of the full length cDNA easily
CC   without any special methods. The present sequence is a full length
CC   human cDNA of the invention.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in CD-ROM format directly from EPO.
```

```
Qy   1090 GATTGTAGACAGCGCCTCAGTTCCAGAAACGCCGCTGGACTGCGAGGTCTCCCTGTGGTC 1149
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    236 GATTGTAGACAGCGCCTCAGTTCCAGAAACGCCGCTGGACTGCGAGGTCTCCCTGTGGTC 295

Qy   1150 GTCCTGGGGACTGTGCGGAGGCCACTGTGGGAGGCTCGGGACCAAGAGCAGGACTCGCTA 1209
          ||||||||||||||||||||||||||||||||||||||| ||||||||||||||    ||
Db    296 GTCCTGGGGACTGTGCGGAGGCCACTGTGGGAGGCTCGGGTCCAAGAGCAGGACTCCGTA 355

Qy   1210 CGTCCGGGTCCAGCCCGCCAACAACGGGAGCCCCTGCCCCGAGCT 1254
          || ||||||||||||||||||||||||||||||||||||||||||
Db    356 CGCCCGGGTCCAGCCCGCCAACAACGGGAGCCCCTGCCCCGAGCT 400
```

RESULT 4
US-09-022-238-1
; Sequence 1, Application US/09022238
; Patent No. 6177244
; GENERAL INFORMATION:
; APPLICANT: Sytkowski, Arthur J. and Yang, Meiheng
; TITLE OF INVENTION: A novel NPG-1 Gene that is differentially expressed in prosta
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/022,238
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/644,326
; FILING DATE: 10-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Maravic-Magovcevic, Ivana
; REGISTRATION NUMBER: P-43,338
; REFERENCE/DOCKET NUMBER: NER-262CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..398
US-09-022-238-1

Query Match 18.4%; Score 339; DB 4; Length 400;
Best Local Similarity 96.3%; Pred. No. 5.3e-62;
Matches 390; Conservative 0; Mismatches 10; Indels 5; Gaps 4;

```
Qy    850 GTACCCCTACGACGCCGGGACGGACAGCGGCTTCACCTTCTCCTCCCCCAACTTCGCCAC 909
          |||||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||
Db      1 GTACCCCTACGACGCCGGGAC-GACAGCGGCTTCACCTTCTCCTCCCCCAACTTCGCCAC 59

Qy    910 CATCCCGCAGGACACGGTGACCGAGATAACGTCCTCCTCTCCCAGCCACCCGGCCAACTC 969
          |||||||| ||||||||||||||||||||||||||||||||||||||||||||||  |||
Db     60 CATCCCGCA-GACACGGTGACCGAGATAACGTCCTCCTCTCCCAGCCACCCGGCCAGCTC 118

Qy    970 CTTCTACTACCCGCGGCTGAAGGCCCTGCCTCCCATCGCCAGGGTGACACTGGTGCGGCT 1029
          ||||||||||||||||||||||||   ||||||||||||||||||||||||||||||||||
Db    119 CTTCTACTACCCGCGGCTGAAGGCC--TGCTCCCATCGCCAGGGTGACACTGGTGCGGCT 176

Qy   1030 GCGACAGAGCCCCAGGGCCTTCATCCCTCCCGCCCCAGTCCTGCCCAGCAGGGACAATGA 1089
          |||||||||||||||||||||||||||||||||||||||||||||||||| |||||||
Db    177 GCGACAGAGCCCCAGGGCCTTCATCCCTCCCGCCCCAGTCCTGCCCAGCA-GGACAATGC 235

Qy   1090 GATTGTAGACAGCGCCTCAGTTCCAGAAACGCCGCTGGACTGCGAGGTCTCCCTGTGGTC 1149
          | |||||||||||||||||||||||||||| |||||||||||||||||||||||||||||
Db    236 GCTTGTAGACAGCGCCTCAGTTCCAGAAACACCGCTGGACTGCGAGGTCTCCCTGTGGTC 295

Qy   1150 GTCCTGGGGACTGTGCGGAGGCCACTGTGGGAGGCTCGGGACCAAGAGCAGGACTCGCTA 1209
          ||||||||||||||||||||||||||||||||||||||| ||||||||||||||    ||
Db    296 GTCCTGGGGACTGTGCGGAGGCCACTGTGGGAGGCTCGGGTCCAAGAGCAGGACTCCGTA 355

Qy   1210 CGTCCGGGTCCAGCCCGCCAACAACGGGAGCCCCTGCCCCGAGCT 1254
          || ||||||||||||||||||||||||||||||||||||||||||
Db    356 CGCCCGGGTCCAGCCCGCCAACAACGGGAGCCCCTGCCCCGAGCT 400
```

RESULT 5
US-08-799-173A-15
; Sequence 15, Application US/08799173A
; Patent No. 5871969
; GENERAL INFORMATION:
; APPLICANT: HASTINGS, GREGG,
; APPLICANT: PATRICK J. DILLON
; TITLE OF INVENTION: HUMAN NEURONAL ATTACHMENT FACTOR-1
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/799,173A
; FILING DATE: 11-FEB-1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: BROOKES, ANDERS A.
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF226
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 506 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-799-173A-15

Query Match 16.6%; Score 304.8; DB 2; Length 506;
Best Local Similarity 85.5%; Pred. No. 6.9e-55;
Matches 371; Conservative 0; Mismatches 59; Indels 4; Gaps 4;

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Qy    293 CGGGTGATGGAAAACCCCAGCCCGGCCGCCGCCCTGGGCAAGGCCCTCTGCGCTCTCCTC 352
          |||  | |    ||||||||||||| ||||||||||||||||  ||||||||||||
Db      6 CGGCANAGGNNAAACCCCAGCCCGGCTGCCGCCCTGGGCAAGGCCTNCTGCGCTCTCCTC 65

Qy    353 CTGGCCACTCTCGGCGCCGCCGGCCAGCCTCTTGGGGGAGAGTCCATCTGTTCCGCCAGA 412
          |||||||||||||||||||| | ||||||||||||||||||||||||||| |||||||||
Db     66 CTGGCCACTCTCGGCGCCGGC-ACCAGCCTCTTGGGGGAGAGTCCATCTNTTCCGCCAGA 124
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GenCore version 5.1.3

OM nucleic - nucleic search, using sw model

Run on: October 27, 2002, 07:51:47 ; Search time 87 Seconds
(without alignments)
5195.007 Million cell updates/sec

Title: US-09-807-200-1
Perfect score: 1840
Sequence: 1 ctcgagccggggtgcggcag.....ctgttgctcaaaaaaaaaaa 1840

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
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6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	1692.4	92.0	1779	4	US-09-371-696-1	Sequence 1, Appli
	2	1100.2	59.8	1105	2	US-08-799-173A-1	Sequence 1, Appli
	3	343.8	18.7	400	1	US-08-644-326-1	Sequence 1, Appli
	4	339	18.4	400	4	US-09-022-238-1	Sequence 1, Appli
	5	304.8	16.6	506	2	US-08-799-173A-15	Sequence 15, Appl
	6	204.2	11.1	316	2	US-08-799-173A-16	Sequence 16, Appl
	7	204.2	11.1	316	2	US-08-799-173A-17	Sequence 17, Appl
	8	71.6	3.9	4029	1	US-07-862-021B-9	Sequence 9, Appli
	9	71.6	3.9	4029	1	US-08-313-288B-9	Sequence 9, Appli
	10	71.6	3.9	4029	5	PCT-US93-03164-9	Sequence 9, Appli
	11	62.2	3.4	3226	1	US-07-862-021B-11	Sequence 11, Appl
	12	62.2	3.4	3226	1	US-08-313-288B-11	Sequence 11, Appl
	13	62.2	3.4	3226	5	PCT-US93-03164-11	Sequence 11, Appl
	14	57.6	3.1	1155	4	US-08-818-112-12	Sequence 12, Appl
	15	57.6	3.1	1155	4	US-08-818-111-12	Sequence 12, Appl
	16	57.6	3.1	1155	4	US-09-056-556-12	Sequence 12, Appl
	17	57.2	3.1	1816	1	US-07-862-021B-13	Sequence 13, Appl
	18	57.2	3.1	1816	1	US-08-313-288B-13	Sequence 13, Appl
	19	57.2	3.1	1816	5	PCT-US93-03164-13	Sequence 13, Appl
c	20	55.4	3.0	1105	2	US-08-799-173A-1	Sequence 1, Appli
	21	55	3.0	30001	1	US-08-125-468-1	Sequence 1, Appli
	22	55	3.0	30001	2	US-08-474-933-1	Sequence 1, Appli
	23	54.4	3.0	933	4	US-09-105-390-43	Sequence 43, Appl
	24	54.4	3.0	1008	4	US-09-105-390-59	Sequence 59, Appl
	25	54.4	3.0	2810	4	US-09-105-390-6	Sequence 6, Appli
c	26	52.4	2.8	1779	4	US-09-371-696-1	Sequence 1, Appli
	27	51.8	2.8	8625	4	US-08-980-832-1	Sequence 1, Appli
	28	51.8	2.8	11233	4	US-08-980-832-27	Sequence 27, Appl
	29	51.8	2.8	23673	4	US-09-773-816-1	Sequence 1, Appli
	30	50.8	2.8	33529	4	US-09-144-085-3	Sequence 3, Appli
	31	50.6	2.8	43280	2	US-08-804-227C-1	Sequence 1, Appli
	32	50.2	2.7	2635	3	US-09-126-280-3	Sequence 3, Appli
	33	50.2	2.7	2670	3	US-09-126-280-1	Sequence 1, Appli
c	34	49.8	2.7	1931	2	US-09-130-114-2	Sequence 2, Appli
c	35	49.2	2.7	1600	4	US-09-434-288-10	Sequence 10, Appl
	36	48.6	2.6	2961	2	US-08-407-875-1	Sequence 1, Appli
	37	48.6	2.6	7218	1	US-08-232-463-14	Sequence 14, Appl
c	38	48.4	2.6	43280	2	US-08-804-227C-1	Sequence 1, Appli
	39	47.8	2.6	3027	2	US-08-680-326-23	Sequence 23, Appl
	40	47.6	2.6	426	1	US-08-470-179-179	Sequence 179, App
	41	47.4	2.6	2580	3	US-09-050-863-2	Sequence 2, Appli
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c	44	47.4	2.6	5045	4	US-09-390-721-3	Sequence 3, Appli
c	45	47.4	2.6	5452	2	US-09-130-114-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-371-696-1
; Sequence 1, Application US/09371696
; Patent No. 6287777
; GENERAL INFORMATION:
; APPLICANT: Sytkowski, Arthur J.
; APPLICANT: Yang, Meiheng
; TITLE OF INVENTION: NOVEL NPG-1 GENE THAT IS DIFFERENTIALLY EXPRESSED IN PROSTATE
; TITLE OF INVENTION: TUMORS
; FILE REFERENCE: 01948/053002
; CURRENT APPLICATION NUMBER: US/09/371,696
; CURRENT FILING DATE: 1999-08-10
; EARLIER APPLICATION NUMBER: US 09/022,238
; EARLIER FILING DATE: 1998-02-11
; EARLIER APPLICATION NUMBER: US 08/644,326
; EARLIER FILING DATE: 1996-05-10
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1779
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (236)...(1225)
; NAME/KEY: misc_feature
; LOCATION: (1)...(1779)
; OTHER INFORMATION: n = A,T,C or G
US-09-371-696-1

Query Match 92.0%; Score 1692.4; DB 4; Length 1779;
Best Local Similarity 98.4%; Pred. No. 0;
Matches 1751; Conservative 0; Mismatches 23; Indels 6; Gaps 4;

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Qy     243 GGCTCTGGCTGGGACCCGACCGCTGCCGGCCGCGCTCCCGCTGCTCCTGCCGGGTGATGG 302
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Qy    303 AAAACCCCAGCCCGGCCGCCGCCCTGGGCAAGGCCCTCTGCGCTCTCCTCCTGGCCACTC 362
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Qy    543 GCATGTGGAGGAAGAACCAGTACGTCAGTAACGGGCTGCGCGACTTTGCGGAGCGCGGCG 602
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Db    720 TCGTGGGCGTGGACAGCCTGGACCTGTGCGACGGGGACCGTTGGCGGGAACAGGCGGCGC 779

Qy    843 TGGACCTGTACCCCTACGACGCCGGGACGGACAGCGGCTTCACCTTCTCCTCCCCCAACT 902
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Db    780 TTGACCTGTACCCCTACGACGCCGGGACGGACAGCGGCTTCACCTTCTCCTCCCCCAACT 839

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Db    840 TCGCCACCATCCCGCAGGACACGGTGACCGAGATAACGTCCTCCTCTCCCAGCCACCCGG 899

Qy    963 CCAACTCCTTCTACTACCCGCGGCTGAAGGCCCTGCCTCCCATCGCCAGGGTGACACTGG 1022
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Db    900 CCAGCTCCTTCTACTACCCGCGGCTGAAGGCCTG--CTCCCATCGCCAGGGTGACACTGG 957

Qy   1023 TGCGGCTGCGACAGAGCCCCAGGGCCTTCATCCCTCCCGCCCCAGTCCTGCCCAGCAGGG 1082
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Qy   1083 ACAATGAGATTGTAGACAGCGCCTCAGTTCCAGAAACGCCGCTGGACTGCGAGGTCTCCC 1142
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Qy   1143 TGTGGTCGTCCTGGGGACTGTGCGGAGGCCACTGTGGGAGGCTCGGGACCAAGAGCAGGA 1202
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Qy   1203 CTCGCTACGTCCGGGTCCAGCCCGCCAACAACGGGAGCCCCTGCCCCGAGCTCGAAGAAG 1262
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Qy   1263 AGGCTGAGTGCGTCCCTGATAACTGCGTCTAAGACCAGAGCCCCGCAGCCCCTGGGGCCC 1322
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Db   1197 AGGCTGAGTGCGTGGCTGATAACTGCGTCTAAGACCAGAGCCCCGCAGCCCCTGGGGCCC 1256

Qy   1323 CCCGGAGCCATGGGGTGTCGGGGGCTCCTGTGCAGGCTCATGCTGCAGGCGGCCGAGGGC 1382
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Db   1257 CCCGGAGCCATGGGGTGTCGGGGGCTCCTGTGCAGGCTCATGCTGCAGGCGGCCGAGGGC 1316

Qy   1383 ACAGGGGGTTTCGCGCTGCTCCTGACCGCGGTGAGGCCGCGCCGACCATCTCTGCACTGA 1442
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Qy   1563 TCCCCAAGGCTCCAGCTACTCTAAATTATGTCTCCTTATAAGTTATTGCTGCTCCAGGAG 1622
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Db   1497 TCCCCAAGGCTCCAGCTACTCTAAATTATGTCTCCTTATAAGTTATTGCTGCTCCAGGAG 1556

Qy   1623 ATTGTCCTTCATCGTCCAGGGGCCTGGCTCCCACGTGGTTGCAGATACCTCAGACCTGGT 1682
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Qy   1743 AGTGAATAAATGGGGCGGTTTCGGAAGCGTCAGTGTTT--CCATGTTATGGATCTCTCTG 1800
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Qy   1801 CGTTTGAATAAAGACTATCTCTGTTGCTCAAAAAAAAAAA 1840
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Db   1737 CGTTTGAATAAAGAATATCTCTGTTGCTCAAAAAAAAAAA 1776
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RESULT 2
US-08-799-173A-1
; Sequence 1, Application US/08799173A
; Patent No. 5871969
; GENERAL INFORMATION:
; APPLICANT: HASTINGS, GREGG,
; APPLICANT: PATRICK J. DILLON
; TITLE OF INVENTION: HUMAN NEURONAL ATTACHMENT FACTOR-1
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HUMAN GENOME SCIENCES,INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/799,173A
; FILING DATE: 11-FEB-1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: BROOKES, ANDERS A.
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF226
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1105 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS